



# Worksheet 1 Thinking abstractly

## Task 1

1. Give examples of some problems which can be tackled by building models or computer simulations
2. What factors would be relevant in a financial model which calculates the likely annual profit in a new coffee shop?

What factors would be irrelevant?



## Task 2

3. Solve this puzzle.

**Roll  
1**



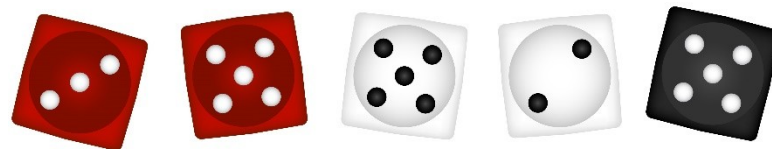
The answer to Roll 1 is: 4

**Roll  
2**



The answer to Roll 2 is: 8

**Roll  
3**



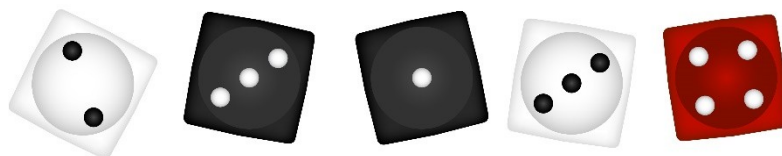
The answer to Roll 3 is: 14

**Roll  
4**



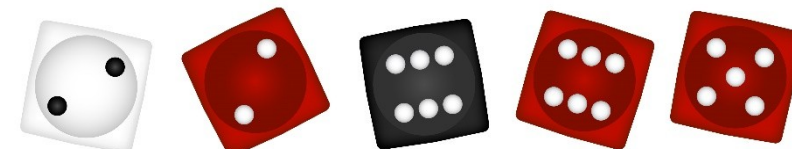
The answer to Roll 4 is: 0

**Roll  
5**



The answer to Roll 5 is: 4

**Roll  
6**



What is the answer to Roll #6?

Why?